

## ABSTRACT

The present invention relates to a link quality determination unit (LQ-DET) for determining a link quality (LQ) of a transmission link (TL) between an OFDM transmitter (TR) and an OFDM receiver (RC) of an OFDM transmission system (SYS). A first link quality measure determination unit (Q1-DET) determines a first link quality measure ( $Q_1$ ) on the basis of a signal power variation or a signal-to-noise variation determined by a variation determination unit (VS-DET). A second link quality determination unit (Q2-DET) calculates a second link quality measure ( $Q_2$ ) on the basis of an average signal-to-noise ratio based on the noise power ( $P_z$ ) and the signal power ( $P_s$ ). To perform a link adaptation (LA) an overall link quality determination unit (Q-DET) combines the first and second link quality measures ( $Q_1, Q_2$ ) into an overall link quality measure (Q).

(Fig. 6 for publication)